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Earthquake Shaking — Yellow Alert

GSN · ANSS

USAID
FROM THE AMERICAN PEOPLE

M 5.5, 50 km NE of Bandar-e Lengeh, Iran

PAGER
Version 4

Origin Time: 2021-01-15 21:31:04 UTC (Sat 01:01:04 local)
Location: 26.9258° N 55.1859° E Depth: 8.0 km

Created: 1 day, 0 hours after earthquake

Estimated Fatalities

33% 35% 23% 7%

1 10 100 1,000 10,000 100,000
Fatalities
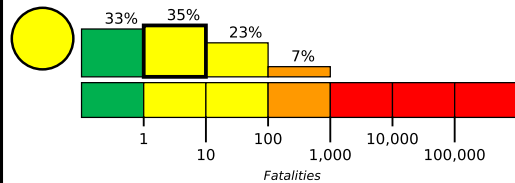
Yellow alert for shaking-related fatalities. Some casualties are possible and the impact should be relatively localized. Past events with this alert level have required a local or regional level response.

Green alert for economic losses. There is a low likelihood of damage.

Estimated Economic Losses

88% 12%

1 10 100 1,000 10,000 100,000
USD (Millions)
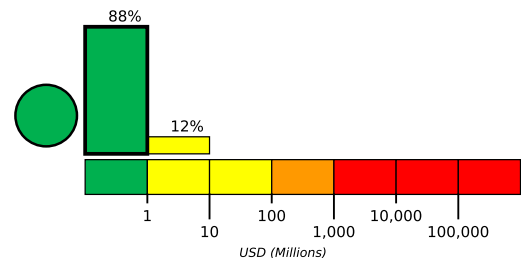
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	8,357k	381k	18k	4k	1k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0	5	50	100	500	1000	5000	10000
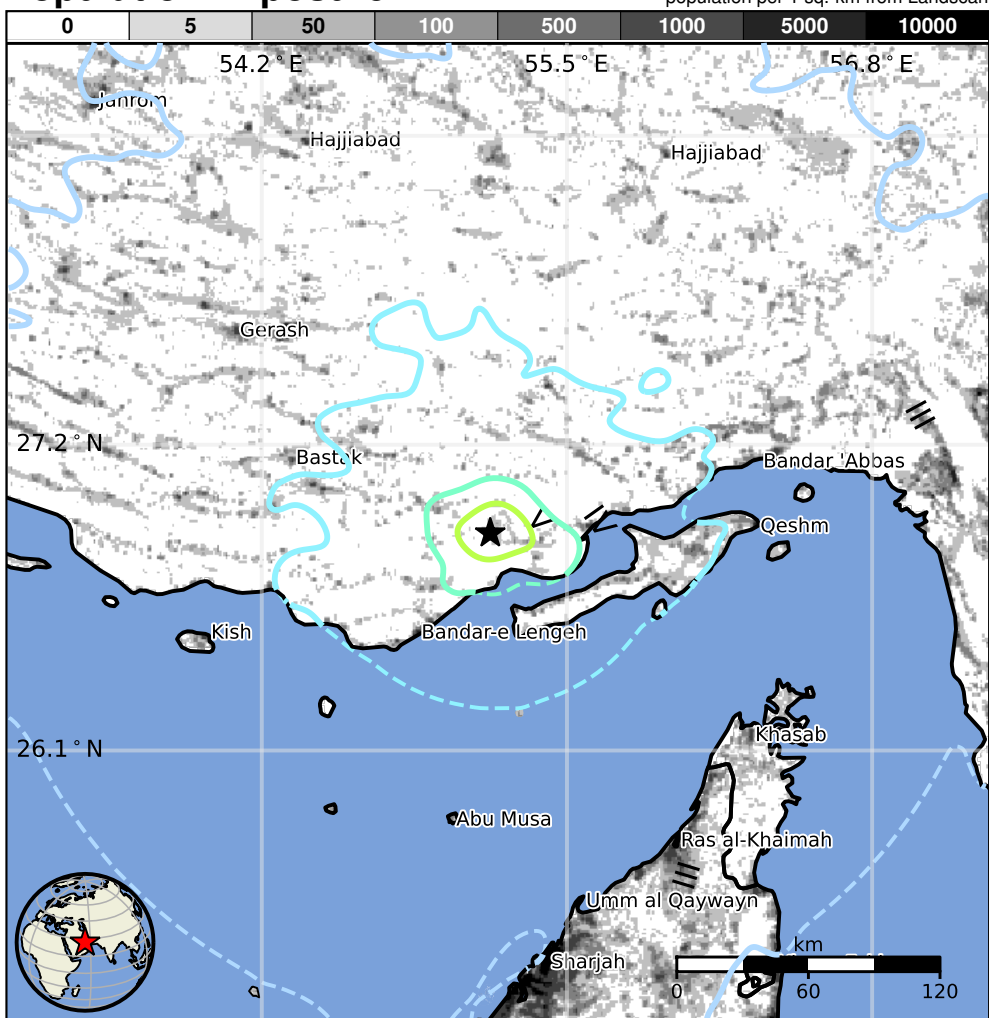
Structures

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building type is low-rise nonductile concrete frame with infill construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1998-11-13	180	5.4	VII(7k)	5
1975-03-07	120	6.1	VII(7k)	7
2003-12-26	376	6.6	VII(72k)	26k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Bandar-e Khamir	<1k
IV	**Bandar-e Lengeh**	**23k**
IV	**Bastak**	**<1k**
III	Bandar Abbas	352k
III	Shahr-e Qadim-e Lar	<1k
III	**Qeshm**	**25k**
III	**Ras al-Khaimah**	**116k**
III	**Umm al Qaywayn**	**44k**
III	**Khasab**	**18k**
III	Ajman	226k
III	**Sharjah**	**544k**

bold cities appear on map.   (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us7000d0gn#pager

Event ID: us7000d0gn